



2621

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Indra LAKSONO et al.

Title: SYSTEM AND METHOD TO PROVIDE VIDEO TO A PLURALITY OF WIRELESS DISPLAY DEVICES

Application No.: 10/081,084

Filed: 02/22/2002

Examiner: Unknown

Group Art Unit: 2621

Atty. Docket No.: 1459.0100290
(1459-VIXS029)

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to the Examiner's attention in the above-identified application. Citation of such information shall not be construed as:

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3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

For each item of information listed that is not in the English language, the undersigned has provided a concise explanation of the relevance, such as through (i) an English language abstract, (ii) an English language equivalent application, (iii) reference to discussion in the application, or (iv) if cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action that

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Judy Carey
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indicates the degree of relevance found by the foreign office.

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If the above-identified application is an original application filed on or after May 29, 2000:

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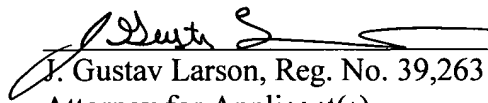
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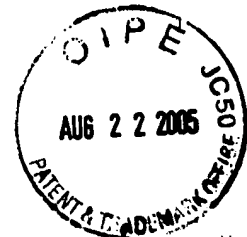
- ☐ within three months of the filing date of a national application or within three months of entry of the national stage as set forth in § 1.491 in an international application. Therefore, no fee is required.
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Respectfully submitted,

8-18-05
Date


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Sheet 1 of 8

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Application Number	10/081,084
Filing Date	02/22/2002
First Named Inventor	Indra LAKSONO
Art Unit	2621
Examiner Name	Unknown
Attorney Docket Number	1459-0100290 (1459-VIXS029)

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	US- 5,027,203	06-25-1991	Samad, et al.	
	AB	US- 5,115,812	05-26-1992	Sano, et al.	
	AC	US- 5,475,434	12-12-1995	Kim	
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	AK	US- 5,940,130	08-17-1999	Nilsson, et al.	
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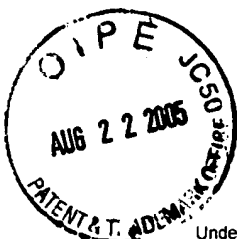
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	AT	EP 0661826 A2	07-05-1995	IBM		
	AU	EP 0739138 A2	10-23-1996	Kalmanek, et al.		
	AV	EP 0805599 A2	11-05-1997	Oki Electric Industry		
	AW	EP 0855805 A2	07-29-1998	Sharp KK		
	AX	EP 0896300 B1	02-10-1999	Matsushita Electric		
	AY	EP 0901285 A1	02-10-1999	Yamauchi		

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		Number-Kind Code ² (if known)			
	AZ	US- 6,167,084	12-26-2000	Wang, et al.	
	BA	US- 6,182,203	01-30-2001	Simar, Jr., et al.	
	BB	US- 6,215,821	04-10-2001	Chen	
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	BS	EP 0955607 A2	11-10-1999	Sarnoff Corp.		
	BT	EP 1032214 A2	08-30-2000	Matsushita Electric		
	BU	WO 01/95633 A2	12-13-2001	Gen Instrument Group		
	BV	WO 02/080518 A2	10-10-2002	Laksono		
	BW	JP 07-210670 A	08-11-1995	Fuji Xerox Ltd.		
	BX	EP 1087625 A2	03-28-2001	Sostawa et al.		

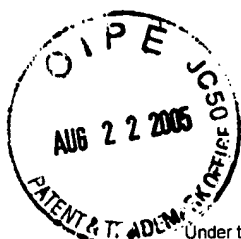
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		Number-Kind Code ² (if known)			
	BY	US- 6,438,168	08-20-2002	Arye	
	BZ	US- 2001/0026591 A1	10-04-2001	Keren, et al.	
	CA	US- 2002/110193 A1	08-15-2002	Kyoon, et al.	
	CB	US- 2002/138259 A1	09-26-2002	Kawahara	
	CC	US- 2002/196851 A1	12-26-2002	Arnaud	
	CD	US- 2002/106022 A1	08-08-2002	Takahashi, et al.	
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	CI	US- 5,253,056	10-12-1993	Puri	
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	CM	US- 5,850,443	12-15-1998	Van Oorschot, et al.	
	CN	US- 2002/0145931 A1	10-10-2002	Pitts	
	CO	US- 2003/0093661 A1	05-15-2003	Loh, et al.	
		US-			
		US-			

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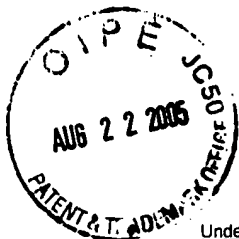
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Sheet 4

of

8

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CP	YU, Donghoom, et al., "Fast Motion Estimation for Shape Coding in MPEG-4," IEEE Transactions on Circuits and Systems for Video Technology, Vol. 13, No. 4, 2003 IEEE, April 2003, pp. 358-363	
	CQ	PYUN, Jae-Young, "QoS Provisioning for Video Streaming Over IEEE 802.11 Wireless LAN," (abridged) IEEE Conferences in Consumer Electronics, June 16, 2003, EE Times, Seoul, Korea, < http://eetimes.com/printableArticle?doc_id=OEG2003061S0070 > retrieved July 8, 2003	
	CR	YOUN, Jeongnam et al., "Video Transcoding For Multiple Clients," Proceedings of the SPIE, Bellingham, VA, vol. 4067, XP008012075, pp. 76-85, University of Washington, Seattle, WA	
	CS	LENGWEHASATIT, Krisda et al., "Computationally Scalable Partial Distance Based Fast Search Motion Estimation," Packet Video Corp., San Diego, California	
	CT	TAKAHASHI, Kuniaki, et al., "Motion Vector Synthesis Algorithm for MPEG2-to-MPEG4 Transcoder," Proceedings of the SPIE, Bellingham, VA, vol. 4310, Sony Corporation, XP008000078, pp. 387-882, 2001 SPIE	
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	CV	AGGARWAL, Manoj et al., "Efficient Huffman Decoding," 2000 IEEE, 0-7803-6297-7, pp. 936-939, University of Illinois at Urbana-Champaign, Urbana, IL	
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	CX	ASSUNCAO, Pedro et al., "Rate Reduction Techniques for MPEG-2 Video Bit Streams," SPIE, Vol. 2952, April 1996, pp. 450-459, University of Essex, Colchester, England	
	CY	YIN, Peng et al., "Video Transcoding by Reducing Spatial Resolution," Princeton University, 2000, Princeton, New Jersey	

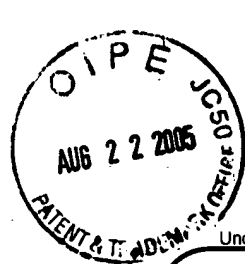
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	CZ	SHANABLEH, Tamer et al., "Heterogeneous Video Transcoding to Lower Spatio-Temporal Resolutions and Difference Encoding Formats," IEEE Transactions on Multimedia, Vol. 2, No. 2, June 2000, pp. 101-110, Engineering and Physical Sciences Research Council, Colchester, U.K.	
	DA	WIEGAND, Thomas et al., "Long-Term Memory Motion-Compensated Prediction for Robust Video Transmission," in Proc. ICIP 2000, University of Erlangen-Buremberg, Erlangen, Germany	
	DB	FAN, Zhigang et al. "Maximum Likelihood Estimation of JPEG Quantization Table in the Identification of Bitmap Compression History," Xerox Corporation, Webster, New York	
	DC	THOMAS, Shine M. et al., "An Efficient Implentation of MPEG-2 (BC1) Layer 1 & Layer 2 Stereo Encoder on Pentium-III Platform", pp. 1-10, Sasken Communication Technologies Limited, Bangalore, India,	
	DD	RAMANUJAN, Ranga S. et al., "Adaptive Streaming of MPEG Video Over IP Networks," 22nd IEEE Conference on Local Computer Networks (LCN '97), November 02-05, 1997, 1997 IEEE, pp. 398-409, Architecture Technology Corporation, Minneapolis, MN	
	DE	REJAIE, Reza et al., "Architectural Considerations for Playback of Quality Adaptive Video Over the Internet," XP002177090, 2000 IEEE pp. 204-209, AT&T Labs, Menlo Park, California	
	DF	BOURAS, C. et al., "On-Demand Hypermedia/Multimedia Service Over Broadband Networks," XP-002180545, 1996 IEEE Proceedings of HPDC-5 '96, pp. 224-230, University of Patras, Patras, Greece	
	DG	CHALIDABHONGSE, Junavit et al., "Fast Motion Vector Estimation Using Multiresolution-Spatio-Temporal Correlations," IEEE Transactions On Circuits and Systems For Video Technology, vol. 7, no. 3 June 1997, pp. 477-488	
	DH	OH, Hwang-Seok et al., "Block-Matching Algorithm Based On An Adaptive Reduction of the Search Area For Motion Estimation," Real-Time Imaging, Academic Press Ltd., Vol. 56, No. 5, Oct 2000, pp. 407-414, XP004419498 ISSN: 1077-2014, Taejon, Korea	
	DI	LEE, Liang-Wei et al., "Dynamic Search-Window Adjustment and Interlaced Search for Block-Matching Algorithm," IEEE Transactions On Circuits and Systems for Video Technology," IEEE, Vol. 3, No. 1, 3 Feb 1993, pp. 85-87, XP000334581 ISSN: 1051-8215, New York	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/081,084
Filing Date	02/22/2002
First Named Inventor	Indra LAKSONO
Art Unit	2621
Examiner Name	Unknown
Attorney Docket Number	1459-0100290 (1459-VIXS029)

Sheet 6

of 8

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	DJ	FUKUNAGA, Shigeru et al., "MPEG-4 Video Verification Model Version 16.0" International Organization for Standardization: Coding of Moving Pictures and Audio, Vol. N3312, March 2000, pp. 1-380, XP000861688,	
	DK	KRONER, Sabine et al., "Edge Preserving Noise Smoothing With An Optimized Cubic Filter," DEEI, University of Trieste, Trieste, Italy	
	DL	KIM, Jaemin et al., "Spatiotemporal Adaptive 3-D Kalman Filter for Video," pp. 1-12. Samsung Semiconductor, Inc. San Jose, California	
	DM	LIU, Julia J., "ECE497KJ Course Project: Applications of Wiener Filtering In Image and Video De-Noising," pp. 1-15, May 21, 1997	
	DN	JOSTSCHULTE, K. et al., "A Subband Based Spatio-Temporal Noise Reduction Technique for Interlaced Video Signals," University Dortmund, Dortmund, Germany	
	DO	KOSSENTINI, Faouzi et al. "Predictive RD Optimized Motion Estimation for Very Low Bit-Rate Video Coding," 1997 IEEE, XP-000726013, pp. 1752-1963, September 1, 1996, 1997 International Conference on Image Processing, Vancouver, Canada	
	DP	TOURAPIS, Alexis et al. "New Results on Zonal Based Motion Estimation Algorithms - Advanced Predictive Diamond Zonal Search," 2001 IEEE, pp. V 183-V 186, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong	
	DQ	BRANDENBURG, Karlheinz, "MP3 and AAC Explained," Proceedings of AES 17th International Conference, XP008004053, pp. 99-110, Erlangen, Germany	
	DR	PAINTER, Ted et al., "Perceptual Coding of Digital Audio," Proceedings of the IEEE, Vol. 88, No. 4, April 2000, pp. 451-513, XP001143231, ISSN: 0018-9219, Arizona State University, Tempe, AZ	
	DS	HASSANZADEGAN, Hooman et al., "A New Method for Clock Recovery in MPEG Decoders," pp. 1-8, Basamad Negar Company, Tehran, Iran	

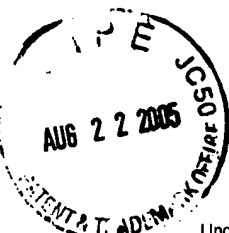
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		Art Unit	2621		
		Examiner Name	Unknown		
Sheet	7	of	8	Attorney Docket Number	1459-0100290 (1459-VIXS029)

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	DT	KAN, Kou-Sou et al., "Low-Complexity and Low-Delay Video Transcoding for Compressed MPEG-2 Bitstream," Natinal Central University, Chung-Li, Taiwan	
	DU	MITCHELL et al., "MPEG Video Compression Standard: 15.2 Encoder and Decoder Buffering," Chapman and Hall Digital Multimedia Standards Series, pp. 340-356, XP002115299, ISBN: 0-412-08771-5, Chapman and Hall, New York	
	DV	WHYBRAY, M.W. et al., "Video Coding - Techniques, Standards and Applications," BT Technol J. Vol. 14, No. 4, 4 October 1997, pp. 86-100, XP000722036	
	DW	"SHARP Product Information: VTST-Series NTSC/PAL Electronic Television Tuners," RF Components Group, Sharp Microelectronics of the America, 1997	
	DX	EDWARDS, Larry M., "Satisfying Your Need for Net Speed," San Diego Metropolitan, September 1999, <<www.sandiegometro.com/1999/sept/speed.html>>, retrieved on 07/19/2001	
	DY	OZ, Ran et al., "Unified Headend Technical Management of Digital Services," BigBend Networks, Inc.	
	DZ	MURIEL, Chris, "What is Digital Satellite Television?," What is Digital Television Rev. 3.0, April 21, 1999, SatCure, Sandbach, England, <<http://www.netcentral.co.uk/satcure/digifaq.htm>>, access on 04/20/2001	
	EA	"CONEXANT Products & Tech Info: Product Briefs: CX24108," 2000-2002 Conexant Systems, Inc. access on 04/20/2001	
	EB	"CONEXANT Products & Tech Info: Product Briefs: CX22702," 2000-2002 Conexant Systems, Inc. access on 04/20/2001	
	EC	"TDC: Components for Modems & Digital Infotainment: Direct Broadcast Satellite Chipset," 2001 Telecom Design Communications Ltd., U.K., <<http://www.tdc.co.uk/modmulti/settop/index.htm>>, access on 04/20/2001	

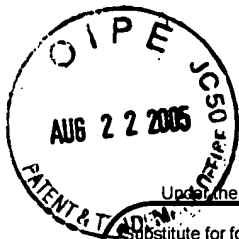
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	ED	"White Paper: Super G: Maximizing Wireless Performance," March 2004, Atheros Communications, Inc., pp. 1-20, Document No. 991-00006-001, Sunnyvale, California	
	EE	KWOK, Y.K. et al., "Efficient Multiple Access Control Using a Channel-Adaptive Protocol for a Wireless ATM-Based Multimedia Services Network," March 29, 2000, Computer Communications 24(2001) 970-983, University of Hong Kong, Hong Kong, PRC	
	EF	LIANG, Ying-Chang et al., "Joint Downlink Beamforming, Power Control, and Data Rate Allocation for DS-CDMA Mobile Radio with Multimedia Services," 2000 IEEE, pp. 1455-1457, Ceneter for Wireless Communication, Singapore	
	EG	RAZAVI, Behzad, "Challenges in Portable RF Transceiver Design," September 1996, 1996 IEEE, pp. 12-25, Circuits & Devices	
	EH	MANNION, Patrick, "IceFyre Device Cools 802.11a Power Consumption," September 24, 2001, Planet Analog, National Semiconductor, << http://www.planetanalog.com/story/OEG20010924S0079 >>, access on 11/05/2001	
	EI	"ICE Fyre Semiconductor: IceFyre 5-GHz OFDM Modem Solution," September 2001, pp. 1-6, ICEFYRE: Rethink Wireless, IceFyre Semiconductor, Inc.	
	EJ	POZAR, David M., "Theory and Design of Ferrimagnetic Components," 1990, pp. 529, Microwave Engineering, Addison-Wesley Publishing Company, Inc.	
	EK	"Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications: High-Speed Physical Layer in the 5 GHz Band," 1999 IEEE, pp. 1-83, Supplement to IEEE Standard for Information Technology, IEEE Std 802.11a-1999, LAN/MAN Standards Committee	
	EL	CICIORA, Walter S., "Cable Television in the United States: An Overview," May 25, 1995, pp. 1-90, Cable Television Laboratories, Inc., Louisville, Colorado	

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